

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 04	Issue No : 2	Issue Dt. : 30.06.2003
Dt of Revision : 27.08.2020	Issued by : P A	
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Section : Formats	FORMAT NO.:CPRI/PUR/ETBID/GTP	
Topic : Technical Specifications format		

Section IV T - Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Tender Enquiry No : CPRI/BLR21CDD105780

Description of the Equipment/ Goods/Services : High Voltage AC/DC Bipolar Variable Stress Ageing Source Test Step-up for ageing three insulators at room temperature.

Note : 1) The technical bid submitted in other than this format is liable to be rejected.

2) All blue fields are mandatorily to be filled in.

Name and address of the bidder	
Quotation Number and Date	

Sl.No.	Technical Specifications/Parameters	Qty	To be completed by the Bidder		
			Details of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
1	Place where equipment /service to be supplied /provided: Insulation Laboratory - Cables & Diagnostic Division, Central Power Research Institute, Bangalore.	1 number			
2	Scope: Design, fabrication, supply, installation, commissioning and training on a variable stress HV DC (bipolar)/HV AC electrical ageing source for ageing of maximum 3 (ie. 1,2,3 insulators (maximum weight-5kg together) at a time) insulators together at room temperature for 5000 hours. The test setup shall include: HV AC Source 18kV, HV DC source 22kV, Control Panel, and connections to suspend test insulators.				

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Sl.No.	Technical Specifications/Parameters	Qty	To be completed by the Bidder		
			Details of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
Design, fabrication, supply, installation, commissioning and training on a variable stress HV DC (bipolar)/HV AC electrical ageing source for ageing of maximum 3 (ie. 1,2,3 insulators (maximum weight- 5kg together) at a time)insulators together at room temperature for 5000 hours.	HV source: Shall be provided with suitable Control panel, HV AC, HV DC source for the smooth control/operation fulfilling following technical specifications. Technical Specification: a) Operating Voltage - 230V ± 5%, AC 50 Hz. b) Output Voltage - 0 -18 kV AC (rms) 50Hz and 0-22kV DC (+Ve/-Ve) selectable and continuously variable. Accuracy 1%. c) Monitor - 3 ½ digit DPMs for output voltage and load currents d) Resolution - 0.1 kV, Current- 1mA e) Regulation - Less than 5% at 250 mA AC- resistive current. f) Short circuit current at rated voltage ≥ 5A. g) Over load Trip level - 260 mA continuous for 2 Seconds for both AC/DC (+Ve/-Ve) h) Rated current - 250 mA continuous for both AC/DC (+Ve/-Ve) i) Ripple factor at rated voltage and rated current ≤ 10 % j) Suitable connections to be provided to suspend three insulators of maximum creepage length 630mm. k) Selection switch for selecting mode of operation as AC, DC (+/-) to be provided Controls and Monitors: a) ON/OFF with indication. b) HT - ON/OFF with indication. c) Increase / Decrease Push buttons or similar arrangement for test voltage. d) ON/OFF Lock for test voltage e) Over load trip with indication. f) Emergency OFF switch to be provided g) 3 ½ digit DPMs for input voltage, output AC and DC (Bipolar) voltage and load currents. h) Counter circuit to be provided for counting total test duration from start of test.				
Design, fabrication, supply, installation, commissioning and training on a variable stress HV DC (bipolar)/HV AC electrical ageing source for ageing of maximum 3 (ie. 1,2,3 insulators (maximum weight- 5kg together) at a time)insulators together at room temperature for 5000 hours.	Interlocks/Safety / Protection: a) Over voltage: Pre-set at 18.1kVAC and 22.1kV DC bipolar. General Notes :- a) The equipment shall not trip on overload for scintillation currents having less than 1ms duration and magnitude up to 1A. b) Female BNC connectors with cables for monitoring the current pulses (AC/DC) for 3 samples with protection shall be provided on the control panel. c) Minimum position of the regulator shall be interlocked with HT ON. d) The test voltage AC/DC shall be measured with suitable precision HV dividers connected directly across the output terminals. e) Test area door interlock with HT-ON shall be provided. f) All the interconnecting cables shall be provided with proper connectors. g) Items having more than 30 kg, shall be provided with lockable and rotatable nylon wheels for easy movement. h) Calibration certificate traceable to NABL to be provided Accessories to be supplied along with the instrument. Warranty: 12 months from the date of installation and commissioning . Supply, Installation, Commissioning and training to be given at Insulation Lab, CPRI.				

PN: 1) Mere statement of "Complied" do not suffice the requirement. The details of technical parameters in proof of CPRI requirements shall be furnished along with technical write-up, catalogues, brochures, literatures, phamplates, or any other documents shall be submitted in hard copy along with technical bid.
 2) Calibration reports/certificates, factory test reports/certificates from an accredited agencies/facilities shall be submitted wherever applicable.
 3) CPRI reserves the right to conduct "predispatch inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinery for the PDI shall be